

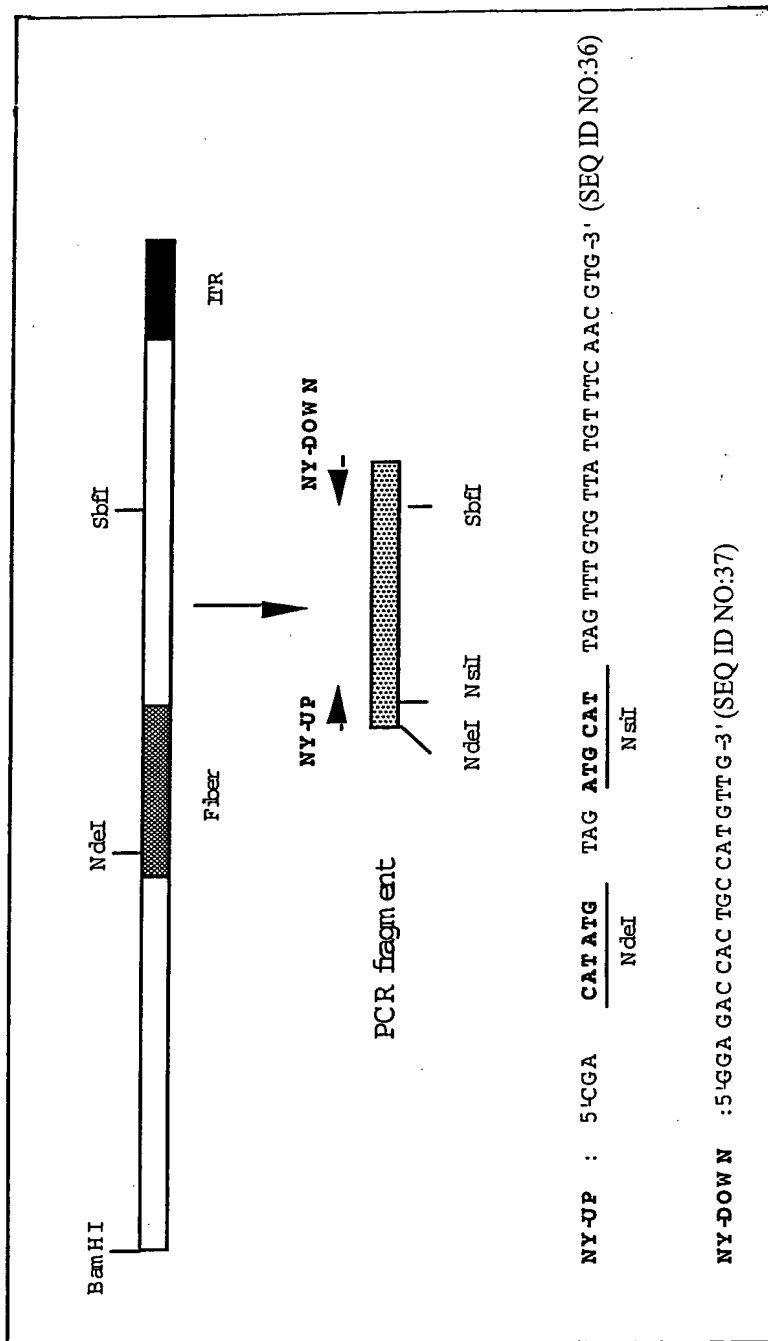


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Figure 2



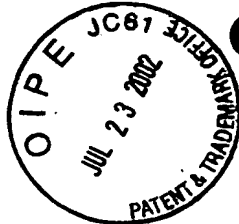


Figure 4: Sequence of Ad5/fib16 chimeric fiber

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TCTAACTCTTAAATGTGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACCTTAAAGTTGGAAGC
AGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACTGCCGAAGCGCCACTCACTA
AAACTAACCCTCCATAGGTTTATTAATAGGATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTT
ATCGCTGGGAGATGGGTTGGTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTAATA
ACAAAAAATGATGTACTATGTGCCAACTAGGACATGGCCTTGTGTTTGACTCTTCCAATGCTATCA
CCATAGAAAACAACACCTTGTGGACAGGCGCAAAACCAAGCGCCAACCTGTGTAATTAAAGAGGGAGA
AGATTCCCCAGACTGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATACATA
ACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACAATCAAGTTACAATCGATGTAA
ACCTCGCATTTGATAATACTGGCCAAATTATTACTTACCTATCATCCCTTAAAAGTAACCTGAACCTT
TAAAGACAACCAAAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCACCACC
GCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGATTACATTTATGGAGAGTGTTACT
ACAAATCTACCAATGGAACCTCTTTTCCACTAAAAGTTACTGTCACACTAAACAGACGTATGTTAGC
TTCTGGAATGGCCTATGCTATGAATTTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAACTACC
GAAGTCACTCTCATTACCTCCCCCTTCTTTTTTTCTTATATCAGAGAAGATGACTGAATGCATTAG

(SEQ ID NO:32)

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FIGURE 7A

Alignment Report of alignment.DNA, using Clustal method with Weighted residue weight table.
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1  A T G G C - C A A A C G A G C T C G G C T A A G C A G C T C C T T C A A T C C G G T C T A C C C C T Fiber 16 Genbank (SEQ ID NO:33)
1  A T G A A G C G C G C A A G A C G T C T G A A - G A T A C C T T C A A C C C G T G T A T C C A T Ad5/16 Fiber DNA (SEQ ID NO:38)

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50  A T G A A G A T G A A A G C A G C T C A C A A C A C C C C T T T A T A A A C C C T G G T T T C A T T Ad5/16 Fiber DNA

100 T C C T C A A A T G G T T T T G C A C A A A G C C C A G A T G G A G T T C T A A C T C T T A A A T G Fiber 16 Genbank
100 T C C T C A A A T G G T T T T G C A C A A A G C C C A G A T G G A G T T C T A A C T C T T A A A T G Ad5/16 Fiber DNA

150 T G T T A A T C C A C T C A C T A C C G C C A G C G G A C C C C T C C A A C T T A A A G T T G G A A Fiber 16 Genbank
150 T G T T A A T C C A C T C A C T A C C G C C A G C G G A C C C C T C C A A C T T A A A G T T G G A A Ad5/16 Fiber DNA

200 G C A G T C T T A C A G T A G A T A C T A T C G A T G G G T C T T T G G A G G A A A A T A T A A C T Fiber 16 Genbank
200 G C A G T C T T A C A G T A G A T A C T A T C G A T G G G T C T T T G G A G G A A A A T A T A A C T Ad5/16 Fiber DNA

250 G C C G C A G C G C C A C T C A C T A A A A C T A A C C A C T C C A T A G G T T T A T T A A T A G G Fiber 16 Genbank
250 G C C G A A G C G C C A C T C A C T A A A A C T A A C C A C T C C A T A G G T T T A T T A A T A G G Ad5/16 Fiber DNA

300 A T C T G G C T T G C A A A C A A A G G A T G A T A A A C T T T G T T T A T C G C T G G G A G A T G Fiber 16 Genbank
300 A T C T G G C T T G C A A A C A A A G G A T G A T A A A C T T T G T T T A T C G C T G G G A G A T G Ad5/16 Fiber DNA

350 G G T T G G T A A C A A A G G A T G A T A A A C T A T G T T T A T C G C T G G G A G A T G G G T T A Fiber 16 Genbank
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400 A T A A C A A A A A T G A T G T A C T A T G T G C C A A A C T A G G A C A T G G C C T T G T G T T Fiber 16 Genbank
406 A T A A C A A A A A T G A T G T A C T A T G T G C C A A A C T A G G A C A T G G C C T T G T G T T Ad5/16 Fiber DNA

450 T G A C T C T T C C A A T G C T A T C A C C A T A G A A A A C A A C A C C T T G T G G A C A G G C G Fiber 16 Genbank
450 T G A C T C T T C C A A T G C T A T C A C C A T A G A A A A C A A C A C C T T G T G G A C A G G C G Ad5/16 Fiber DNA

500 C A A A A C C A A G C G C C A A C T G T G T A A T T A A A G A G G G A G A A G A T T C C C C A G A C Fiber 16 Genbank
500 C A A A A C C A A G C G C C A A C T G T G T A A T T A A A G A G G G A G A A G A T T C C C C A G A C Ad5/16 Fiber DNA

550 T G T A A G C T C A C T T T A G T T C T A G T G A A G A A T G G A G G A C T G A T A A A T G G A T A Fiber 16 Genbank
550 T G T A A G C T C A C T T T A G T T C T A G T G A A G A A T G G A G G A C T G A T A A A T G G A T A Ad5/16 Fiber DNA

600 C A T A A C A T T A A T G G G A G C C T C A G A A T A T A C T A A C A C C T T G T T T A A A A A C A Fiber 16 Genbank
600 C A T A A C A T T A A T G G G A G C C T C A G A A T A T A C T A A C A C C T T G T T T A A A A A C A Ad5/16 Fiber DNA

650 A T C A A G T T A C A A T C G A T G T A A A C C T C G C A T T T G A T A A T A C T G G C C A A A T T Fiber 16 Genbank
650 A T C A A G T T A C A A T C G A T G T A A A C C T C G C A T T T G A T A A T A C T G G C C A A A T T Ad5/16 Fiber DNA

700 A T T A C T T A C C T A T C A T C C C T T A A A A G T A A C C T G A A C T T T A A A G A C A A C C A Fiber 16 Genbank
700 A T T A C T T A C C T A T C A T C C C T T A A A A G T A A C C T G A A C T T T A A A G A C A A C C A Ad5/16 Fiber DNA

750 A A A C A T G G C T A C T G G A A C C A T A A C C A G T G C C A A A G G C T T C A T G C C C A G C A Fiber 16 Genbank
750 A A A C A T G G C T A C T G G A A C C A T A A C C A G T G C C A A A G G C T T C A T G C C C A G C A Ad5/16 Fiber DNA

800 C C A C C G C C T A T C C A T T T A T A A C A T A C G C C A C T G A G A C C C T A A A T G A A G A T Fiber 16 Genbank
800 C C A C C G C C T A T C C A T T T A T A A C A T A C G C C A C T G A G A C C C T A A A T G A A G A T Ad5/16 Fiber DNA

850 T A C A T T T A T G G A G A G T G T T A C T A C A A A T C T A C C A A T G G A A C T C T C T T T C C Fiber 16 Genbank
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900 A C T A A A A G T T A C T G T C A C A C T A A A C A G A C G T A T G T T A G C T T C T G G A A T G G Fiber 16 Genbank
900 A C T A A A A G T T A C T G T C A C A C T A A A C A G A C G T A T G T T A G C T T C T G G A A T G G Ad5/16 Fiber DNA

950 C C T A T G C T A T G A A T T T T T C A T G G T C T C T A A A T G C A G A G G A A G C C C C G G A A Fiber 16 Genbank
950 C C T A T G C T A T G A A T T T T T C A T G G T C T C T A A A T G C A G A G G A A G C C C C G G A A Ad5/16 Fiber DNA

1000 A C T A C C G A A G T C A C T C T C A T T A C C T C C C C T T C T T T T T T C T T A T A T C A G Fiber 16 Genbank
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1050 A G A A G A T G A C T G A Fiber 16 Genbank
1050 A G A A G A T G A C T G A A T G C A T T A G T T T G T G T T A T G T T T C A A C G T G T T T A T T T Ad5/16 Fiber DNA

1062 Fiber 16 Genbank
1100 T C A A T T G Ad5/16 Fiber DNA
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Decoration 'Decoration #1': Box residues that differ from Fiber 16 Genbank.

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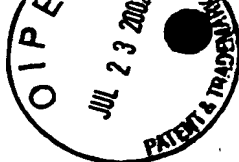


FIGURE 7B

Alignment Report of alignment.prot, using Clustal method with PAM250 residue weight table.
Wednesday, March 31, 1999 16:19

Page 1

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1  M - K R A R P S E D T F N P V Y P Y E D E S S S Q H P F I N chimeric Ad5/Fib16 (SEQ ID NO:34)

30  P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G genbank Fiber 16
30  P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G chimeric Ad5/Fib16

60  P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T genbank Fiber 16
60  P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T chimeric Ad5/Fib16

90  K T N H S I G L L I G S G L Q T K D D K L C L S L G D G L V genbank Fiber 16
90  K T N H S I G L L I G S G L Q T K D D K L C L S L E D G L V chimeric Ad5/Fib16

120 T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V genbank Fiber 16
120 T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V chimeric Ad5/Fib16

150 F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E genbank Fiber 16
150 F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E chimeric Ad5/Fib16

180 D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y genbank Fiber 16
180 D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y chimeric Ad5/Fib16

210 T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S genbank Fiber 16
210 T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S chimeric Ad5/Fib16

240 L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A genbank Fiber 16
240 L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A chimeric Ad5/Fib16

270 Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F genbank Fiber 16
270 Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F chimeric Ad5/Fib16

300 P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E genbank Fiber 16
300 P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E chimeric Ad5/Fib16

330 E A P E T T E V T L I T S P F F F S Y I R E D D genbank Fiber 16
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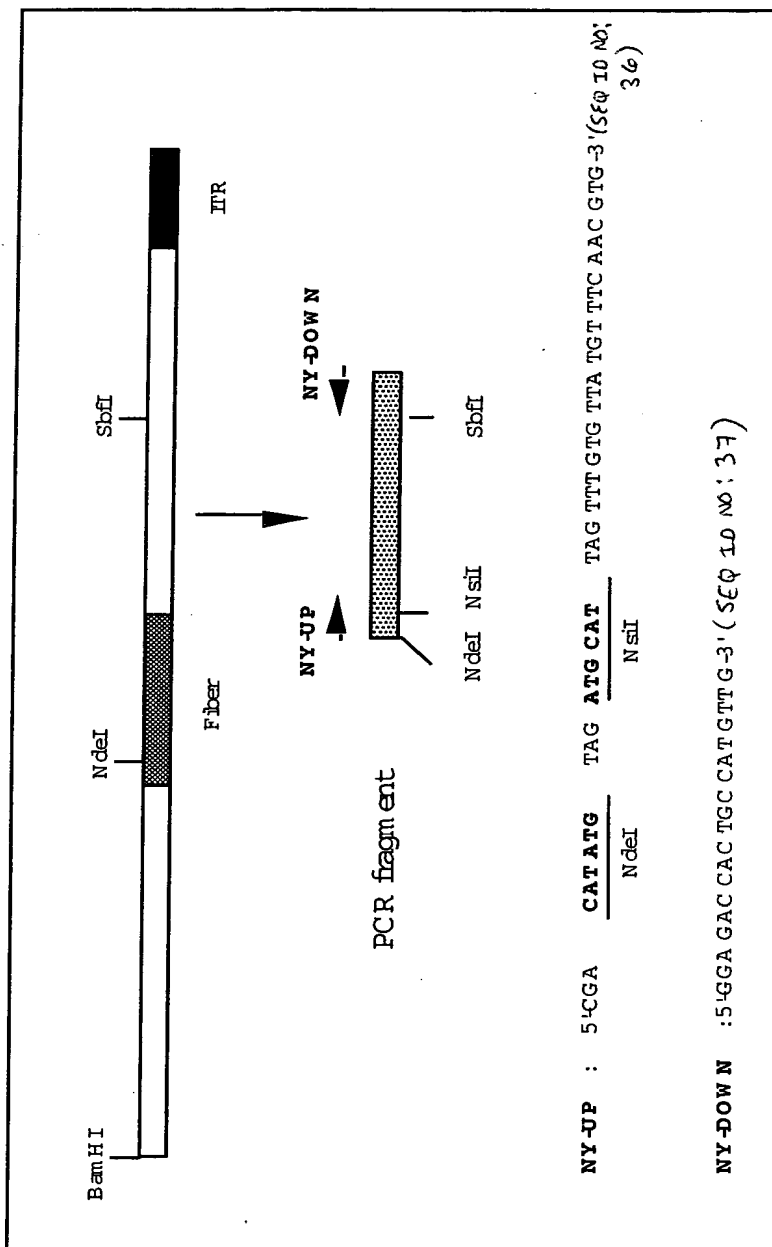
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Figure 2



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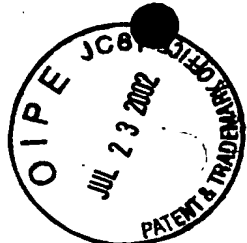


Figure 4: Sequence of Ad5/fib16 chimeric fiber

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ACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACAATCAAGTTACAATCGATGTAA
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TAAAGACAACCAAAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCACCACC
GCCTATCCATTTATAACATACGCCACTGAGACCCCTAAATGAAGATTACATTTATGGAGAGTGTTACT
ACAAATCTACCAATGGAACCTCTTTTCCACTAAAAGTTACTGTCACTAAACAGACGTATGTTAGC
TTCTGGAATGGCCTATGCTATGAATTTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAACTACC
GAAGTCACTCTCATTACCTCCCCCTTCTTTTTTTCTTATATCAGAGAAGATGACTGAATGCATTAG

(SEQ 10 No: 32)

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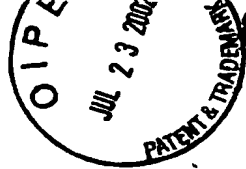


FIGURE 7A

Alignment Report of alignment.DNA, using Clustal method with Weighted residue weight table.
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Page 1

1 A T G G C - C A A A C G A G C T C G G C T A A G C A G C T C C T T C A A T C C G G T C T A C C C C T Fiber 16 Genbank (Seq ID NO: 38)
1 A T G [A A G] C [G C G] C [A A G] [A C] C G [T] C T [G A] [A - G A T A] C C T T C A A [C] C [C] G T [G] T A [T] C C [A] T Ad5/16 Fiber DNA (Seq ID NO: 38)

50 A T G A A G A T G A A A G C A G C T C A C A A C A C C C C T T T A T A A A C C C T G G T T T C A T T Fiber 16 Genbank
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100 T C C T C A A A T G G T T T T G C A C A A A G C C C A G A T G G A G T T C T A A C T C T T A A A T G Fiber 16 Genbank
100 T C C T C A A A T G G T T T T G C A C A A A G C C C A G A T G G A G T T C T A A C T C T T A A A T G Ad5/16 Fiber DNA

150 T G T T A A T C C A C T C A C T A C C G C C A G C G G A C C C C T C C A A C T T A A A G T T G G A A Fiber 16 Genbank
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200 G C A G T C T T A C A G T A G A T A C T A T C G A T G G G T C T T T G G A G G A A A A T A T A A C T Fiber 16 Genbank
200 G C A G T C T T A C A G T A G A T A C T A T C G A T G G G T C T T T G G A G G A A A A T A T A A C T Ad5/16 Fiber DNA

250 G C C G C A G C G C C A C T C A C T A A A A C T A A C C A C T C C A T A G G T T T A T T A A T A G G Fiber 16 Genbank
250 G C C G [A] A G C G C C A C T C A C T A A A A C T A A C C A C T C C A T A G G T T T A T T A A T A G G Ad5/16 Fiber DNA

300 A T C T G G C T T G C A A A C A A A G G A T G A T A A A C T T T G T T T A T C G C T G G G A G A T G Fiber 16 Genbank
300 A T C T G G C T T G C A A A C A A A G G A T G A T A A A C T T T G T T T A T C G C T G G G A G A T G Ad5/16 Fiber DNA

350 G G T T G G T A A C A A A G G A T G A T A A A C T A T G T T T A T C G C T G G G A G A T G G G T T A Fiber 16 Genbank
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400 A T A A C A A A A A T G A T G T A C T A T G T G C C A A A C T A G G A C A T G G C C T T G T G T T Fiber 16 Genbank
400 A T A A C A A A A A T G A T G T A C T A T G T G C C A A A C T A G G A C A T G G C C T T G T G T T Ad5/16 Fiber DNA

450 T G A C T C T T C C A A T G C T A T C A C C A T A G A A A C A A C A C C T T G T G G A C A G G C G Fiber 16 Genbank
450 T G A C T C T T C C A A T G C T A T C A C C A T A G A A A C A A C A C C T T G T G G A C A G G C G Ad5/16 Fiber DNA

500 C A A A A C C A A G C G C C A A C T G T G T A A T T A A A G A G G G A G A A G A T T C C C C A G A C Fiber 16 Genbank
500 C A A A A C C A A G C G C C A A C T G T G T A A T T A A A G A G G G A G A A G A T T C C C C A G A C Ad5/16 Fiber DNA

550 T G T A A G C T C A C T T T A G T T C T A G T G A A G A A T G G A G G A C T G A T A A A T G G A T A Fiber 16 Genbank
550 T G T A A G C T C A C T T T A G T T C T A G T G A A G A A T G G A G G A C T G A T A A A T G G A T A Ad5/16 Fiber DNA

600 C A T A A C A T T A A T G G G A G C C T C A G A A T A T A C T A A C A C C T T G T T T A A A A A C A Fiber 16 Genbank
600 C A T A A C A T T A A T G G G A G C C T C A G A A T A T A C T A A C A C C T T G T T T A A A A A C A Ad5/16 Fiber DNA

650 A T C A A G T T A C A A T C G A T G T A A A C C T C G C A T T T G A T A A T A C T G G C C A A A T T Fiber 16 Genbank
650 A T C A A G T T A C A A T C G A T G T A A A C C T C G C A T T T G A T A A T A C T G G C C A A A T T Ad5/16 Fiber DNA

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700 A T T A C T T A C C T A T C A T C C C T T A A A A G T A A C C T G A A C T T T A A A G A C A A C C A Ad5/16 Fiber DNA

750 A A A C A T G G C T A C T G G A A C C A T A A C C A G T G C C A A A G G C T T C A T G C C C A G C A Fiber 16 Genbank
750 A A A C A T G G C T A C T G G A A C C A T A A C C A G T G C C A A A G G C T T C A T G C C C A G C A Ad5/16 Fiber DNA

800 C C A C C G C C T A T C C A T T T A T A A C A T A C G C C A C T G A G A C C C T A A A T G A A G A T Fiber 16 Genbank
800 C C A C C G C C T A T C C A T T T A T A A C A T A C G C C A C T G A G A C C C T A A A T G A A G A T Ad5/16 Fiber DNA

850 T A C A T T T A T G G A G A G T G T T A C T A C A A A T C T A C C A A T G G A A C T C T C T T T C C Fiber 16 Genbank
850 T A C A T T T A T G G A G A G T G T T A C T A C A A A T C T A C C A A T G G A A C T C T C T T T C C Ad5/16 Fiber DNA

900 A C T A A A A G T T A C T G T C A C A C T A A A C A G A C G T A T G T T A G C T T C T G G A A T G G Fiber 16 Genbank
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950 C C T A T G C T A T G A A T T T T T C A T G G T C T C T A A A T G C A G A G G A A G C C C C G G A A Fiber 16 Genbank
950 C C T A T G C T A T G A A T T T T T C A T G G T C T C T A A A T G C A G A G G A A G C C C C G G A A Ad5/16 Fiber DNA

1000 A C T A C C G A A G T C A C T C T C A T T A C C T C C C C C T T C T T T T T T C T T A T A T C A G Fiber 16 Genbank
1000 A C T A C C G A A G T C A C T C T C A T T A C C T C C C C C T T C T T T T T T C T T A T A T C A G Ad5/16 Fiber DNA

1050 A G A A G A T G A C T G A Fiber 16 Genbank
1050 A G A A G A T G A C T G A A T G C A T T A G T T T G T G T T A T G T T T C A A C G T G T T T A T T T Ad5/16 Fiber DNA

1062 Fiber 16 Genbank
1100 T C A A T T G Ad5/16 Fiber DNA

Decoration 'Decoration #1': Box residues that differ from Fiber 16 Genbank.

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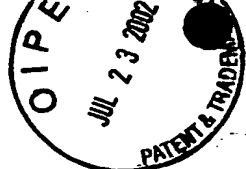


FIGURE 7B

Alignment Report of alignment.prot, using Clustal method with PAM250 residue weight table.
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Page 1

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1  M A K R A R L S S - S F N P V Y P Y E D E S S S Q H P F I N  genbank Fiber 16 (SEQ ID NO: 35)
1  M - K R A R P S E D T F N P V Y P Y E D E S S S Q H P F I N  chimeric Ad5/Fib16 (SEQ ID NO: 34)

30  P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G  genbank Fiber 16
30  P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G  chimeric Ad5/Fib16

60  P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T  genbank Fiber 16
60  P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T  chimeric Ad5/Fib16

90  K T N H S I G L L I G S G L Q T K D D K L C L S L G D G L V  genbank Fiber 16
90  K T N H S I G L L I G S G L Q T K D D K L C L S L E D G L V  chimeric Ad5/Fib16

120 T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V  genbank Fiber 16
120 T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V  chimeric Ad5/Fib16

150 F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E  genbank Fiber 16
150 F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E  chimeric Ad5/Fib16

180 D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y  genbank Fiber 16
180 D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y  chimeric Ad5/Fib16

210 T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S  genbank Fiber 16
210 T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S  chimeric Ad5/Fib16

240 L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A  genbank Fiber 16
240 L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A  chimeric Ad5/Fib16

270 Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F  genbank Fiber 16
270 Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F  chimeric Ad5/Fib16

300 P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E  genbank Fiber 16
300 P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E  chimeric Ad5/Fib16

330 E A P E T T E V T L I T S P F F F S Y I R E D D  genbank Fiber 16
330 E A P E T T E V T L I T S P F F F S Y I R E D D  chimeric Ad5/Fib16
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Decoration 'Decoration #1': Box residues that differ from genbank Fiber 16 .

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